Dear Joshua,

It is a long time I do not hear from you. Are there any news on K-12, and especially Hfr ? I have been mostly concerned with the Fr gene. Most of the time was spent looking for a linkage with some of the ordinary markers, but none was found sofar, except a very doubtful one with methionine, which will probabby disappear on further tisting. It is rather annoying to deal with something which seems to segregate so beautifully as if it were on another chromosome, and find nothing linked with it. The tests are unfortunately rather tedoors. I have since long prepared sera to try and discriminate serologically between F+ and F- but have not yet undertaken the lengthy adsopptions which would be necessary if they were to come into some use. The most interesting result obtained in the past week is that E-agents, other than the K-12 one, almow a cross to occur between two Fr strains. This is the result, the consequences of which I am trying to work out at present. Concerning linkage of Fr and other genes, beside trying new biochemicals, the only hope I have at present is khat not bound to an Fr recombinant from an F+ x Fr cross which, different from all other Fr recombinants tosted, when crossed to F+ does not give F+: Fr recombinants in the 1:1 ratio but only (or almost only) Fr. The case is probably a very complicated one. I shall prepare a summary of work done sofar as I should hike to have your opinion on it, and send it to you. Anohe experiment which I have n mind, and may through some light on the mole obscure problem is to let Fr act as F+ in a cross with F- by using the following Fa agent mentioned above. The trouble is that this agent is very unitable when transferred in the K-12 line, and good results are obtained only with menage a trois experiments . At the present stage there may still be some doubt that this agent acts as a hormone, although some low recombination rates have been obtained with Fr treated with the R+ and isolated.

Di best wishes for Xmas and the New Year,

Yours

Luca

(1) Hove you are onything about it?